Aquaculture 284 (2008) 289–291

Contents lists available at ScienceDirect

Aquaculture

journal homepage: www.elsevier.com/locate/aqua-online

Contents of *Aquaculture*, Volume 284

Vol. 284 Nos. 1–4 **1 November 2008**

Publisher's note 1

Review Article

A cost–benefit analysis of the application of pharmacokinetic/pharmacodynamic-based approaches to setting disc diffusion breakpoints in aquaculture: A case study of oxolinic acid and *Aeromonas salmonicida*
P. Smith (Galway, Ireland) 2

Diseases

Improved field trial methodology for quantifying vaccination side-effects in farmed Atlantic salmon (*Salmo salar* L.)
A. Aunsmo, R.B. Larssen, P.S. Valle, M. Sandberg, Ø. Evensen, P.J. Midtlyng (Oslo, Norway), A. Østvik (Frøya, Norway) and E. Skjerve (Oslo, Norway) 19

DNA vaccination in aquaculture – Expert judgments of impacts on environment and fish health
F. Gillund, R. Dalmo, T.C. Tonheim, T. Seternes and A.I. Myhr (Tromsø, Norway) 25

Occurrence of rare genotypes of *Streptococcus agalactiae* in cultured red tilapia *Oreochromis* sp. and Nile tilapia *O. niloticus* in Thailand–Relationship to human isolates?
N. Suanyuk (Songkhla, Thailand), F. Kong, D. Ko, G.L. Gilbert (Westmead, New South Wales, Australia) and K. Supamattaya (Songkhla, Thailand) 35

A mixed infection in sevenband grouper *Epinephelus septemfasciatus* affected with viral nervous necrosis (VNN)
Y. Kokawa (Hakodate, Japan), I. Takami (Nagasaki, Japan), T. Nishizawa and M. Yoshimizu (Hakodate, Japan) 41

Abdominal segment deformity disease (ASDD) of the whiteleg shrimp *Penaeus vannamei* reared in Thailand
W. Sakaew, B. Pratoomthai, G. Anantasomboon, S. Asuvapongpatana, S. Sriurairattana and B. Withyachumnarnkul (Bangkok, Thailand) 46

Retinopathy in stunted black tiger shrimp *Penaeus monodon* and possible association with Laem-Singh virus (LSNV)
B. Pratoomthai, W. Sakaew, S. Sriurairatana, K. Wongprasert (Bangkok, Thailand) and B. Withyachumnarnkul (Bangkok, Pratum Thani, Thailand) 53

Metazoan parasites of *Cyprinus carpio* L. (Cyprinidae) from Mozambique
C. Boane (Maputo, Mozambique), C. Cruz and A. Saraiva (Porto, Portugal) 59

Taura syndrome virus from Venezuela is a new genetic variant
I. Côté, S. Navarro, K.F.J. Tang, B. Noble and D.V. Lightner (Tucson, Arizona, USA) 62

Husbandry and Management

Optimal prediction of adductor percentage for *Argopecten irradians concentricus* (Say) cultured in Beibu bay in China
W. Hui, F. Shiwei and L. Zhigang (Guangdong Zhanjiang, China) 68

Integrating filamentous 'green tide' algae into tropical pond-based aquaculture
P.H. de Paula Silva (Townsville, Australia), S. McBride (Bowen, Queensland, Australia), R. de Nys and N.A. Paul (Townsville, Australia) 74

Rearing oxygen level and slaughter stress effects on rainbow trout flesh quality
F. Lefèvre, J. Bugeon, B. Aupérin (Rennes, France) and J. Aubin (Rennes, Sizun, France) 81

Impact of pre-slaughter stress on residual blood in fillet portions of farmed Atlantic cod (*Gadus morhua*) – Measured chemically and by Visible and Near-infrared spectroscopy
S.H. Olsen, N.K. Sørensen, R. Larsen, E.O. Elvevoll and H. Nilsen (Tromsø, Norway) 90

Combined effects of diet and stocking density on growth and biochemical composition of spat of the Cortez oyster *Crassostrea corteziensis* at the hatchery
J.M. Mazón-Suástegui, K.M. Ruíz-Ruíz, A. Parres-Haro and P.E. Saucedo (La Paz, Mexico) 98

The influence of starvation time prior to slaughter on the quality of commercial-sized gilthead seabream (*Sparus aurata*) during ice storage
A. Álvarez, B. García García, M.D. Garrido and M.D. Hernández (Murcia, Spain) 106
Towards a safe standard for heavy metals in reclaimed water used for fish aquaculture
M. Feldlite (Petah-Tikwa, Israel), M. Juanicó (Afula, Israel), I. Karplus (Beit-Dagan, Israel) and A. Milstein (Israel) 115
GIS-based multi-criteria evaluation models for identifying suitable sites for Japanese scallop (*Mizuhopecten yessoensis*) aquaculture in Funka Bay, southwestern Hokkaido, Japan
I.N. Radiarta, S.-I. Saitoh and A. Miyazono (Hokkaido, Japan) 127
Determining factors affecting muddy-flavour taint in farmed barramundi, *Lates calcarifer*
S. Percival (Kettering, TAS, Australia), P. Drabsch (Kununurra, WA, Australia) and B. Glencross (North Beach, WA, Australia) 136

Nutrition

Influence of different dietary 18:3n-3/18:2n-6 ratio on growth performance, fatty acid composition and hepatic ultrastructure in Eurasian perch, *Perca fluviatilis*
G. Blanchard, J.G. Makombu and P. Kestemont (rue de Bruxelles, Belgium) 144
Evaluation of wax spray beads for delivery of low-molecular weight, water-soluble nutrients and antibiotics to *Artemia*
C. Langdon (Newport, OR, USA), A. Nordgreen (Bergen, Norway), M. Hawkyard (Newport, OR, USA) and K. Hamre (Bergen, Norway) 151
Apparent digestion and apparent retention of lipid and fatty acids in Atlantic cod (*Gadus morhua*) fed increasing dietary lipid levels
J.Ø. Hansen, G.M. Berge (Ås, Norway), M. Hillestad (Trondheim, Norway), A. Krogdahl (Ås, Oslo, Norway), T.F. Galloway (Trondheim, Norway), H. Holm (Oslo, Norway), J. Holm (Trondheim, Norway) and B. Ruyter (Ås, Norway) 159
Productivity, carcass composition, waste output and sensory characteristics of large barramundi *Lates calcarifer* fed high-nutrient density diets
B. Glencross, R. Michael, K. Austen (North Beach, WA, Australia) and R. Hauler (Rosny Park, TAS, Australia) 167
Improved growth rate in farmed *Haliotis midae* through probiotic treatment
K.I. ten Doeschate and V.E. Coyne (Rondebosch, South Africa) 174
Effect of lysine and tyrosine supplementation in the amino acid metabolism of *Diplodus sargus* larvae fed rotifers
M. Saavedra (Olhão Portugal), L.E.C. Conceição (Faro, Portugal), S. Helland (Sunndalsøra, Norway), P. Pousão-Ferreira (Olhão Portugal) and M.T. Dinis (Faro, Portugal) 180
Effect of replacing soybean meal with cottonseed meal on growth, feed utilization, and hematological indexes for juvenile hybrid tilapia, *Oreochromis niloticus* × *O. aureus*
Y.-R. Yue and Q.-C. Zhou (Zhanjiang, People's Republic of China) 185
Rotifers enriched with iodine and selenium increase survival in Atlantic cod (*Gadus morhua*) larvae
K. Hamre, T.A. Mollan, Ø. Sæle (Bergen, Norway) and B. Erstad (Rong, Norway) 190
The use of alfalfa, *Medicago sativa* as a natural carotenoid source in diets of goldfish, *Carassius auratus*
M. Yanar, Z. Erçen (Balcalı/Adana, Turkey), A. Özlüer Hunt (Mersin, Turkey) and H.M. Büyükçapar (Kahramanmaraş, Turkey) 196
The dietary protein requirement of the Malaysian mahseer, *Tor tambroides* (Bleeker), and the lack of protein-sparing action by dietary lipid
W.-K. Ng, N. Abdullah (Penang, Malaysia) and S.S. De Silva (Bangkok, Thailand) 201
Dietary manganese requirements of juvenile tilapia, *Oreochromis niloticus* × *O. aureus*
Y.-H. Lin, S.-M. Lin (Keelung, Taiwan) and S.-Y. Shiau (Keelung, Taichung County, Taiwan) 207
The use of the Mediterranean calanoid copepod *Centropages typicus* in Yellowtail clownfish (*Amphiprion clarkii*) larviculture
I. Olivotto (Ancona, Italy), I. Buttino (Napoli, Italy), M. Borroni, C.C. Piccinetti (Ancona, Italy), M.G. Malzone (Napoli, Italy) and O. Carnevali (Ancona, Italy) 211

Physiology and Endocrinology

Metabolism traits of 'all-fish' growth hormone transgenic common carp (*Cyprinus carpio* L.)
B. Guan (Wuhan, Bejing, China), W. Hu, T. Zhang, Y. Wang and Z. Zhu (Wuhan, China) 217
Accumulation of domoic acid and its effect on juvenile king scallop *Pecten maximus* (Linnaeus, 1758)
H. Liu (Qingdao, PR China; Scotland, UK), M.S. Kelly, D.A. Campbell (Scotland, UK), J. Fang and J. Zhu (Qingdao, PR China) 224
Inhibition of fish myostatin activity by recombinant fish follistatin and myostatin prodomain: Potential implications for enhancing muscle growth in farmed fish
Y. Rebhan and B. Funkenstein (Haifa, Israel) 231
Purification and characterization of an alpha-2-macroglobulin protease inhibitor from plasma of the grouper *Epinephelus coioides*
W.-H. Chuang, P.-C. Liu and K.-K. Lee (Keelung, Taiwan) 239
A single whey acidic protein domain (SWD)-containing peptide from fleshy prawn with antimicrobial and proteinase inhibitory activities
Y.-P. Jia, Y.-D. Sun, Z.-H. Wang, Q. Wang, X.-W. Wang, X.-F. Zhao and J.-X. Wang (Jinan, China) 246
Postprandial nitrogen metabolism and excretion in juvenile marble goby, *Oxyeleotris marmorata* (Bleeker, 1852)
Y.Y.M. Tng, N.L.J. Wee, Y.K. Ip and S.F. Chew (Singapore, Republic of Singapore) 260
Cryopreservation of spotted halibut (*Verasper variegatus*) sperm
Y.S. Tian S.L. Chen (Qingdao, China), X.S. Ji (Taian, China), J.M. Zhai, L.J. Sun (Laizhou, China), C. Chen and P.Z. Su (Qingdao, China) 268
Gross growth efficiency as a function of food intake level in the "Pulpito" *Octopus tehuelchus*: A multimodel inference application
M.J. Klaich, M.E. Ré and S.N. Pedraza (Chubut, Argentina) 272

Short Communications

Effectiveness of freshwater treatment against *Lepeophtheirus simplex* (Copepoda: Caligidae) and *Neobenedenia* sp. (Monogenea: Capsalidae), skin parasites of bullseye puffer fish, *Sphoeroides annulatus* reared in tanks
E.J. Fajer-Ávila, I. Martínez-Rodríguez, M.I. Abdo de la Parra, L. Álvarez-Lajonchere and M. Betancourt-Lozano (Mazatlán, México) 277

Isolation, characterization and evaluation of microsatellite DNA markers in giant 3 freshwater prawn *Macrobrachium rosenbergii*, from South India
D. Divu, R. Khushiramani, S. Malathi, I. Karunasagar and I. Karunasagar (Mangalore, India) 281
Recovery of *Acinetobacter baumannii* from diseased channel catfish (*Ictalurus punctatus*) in China
L. Xia, D. Xiong, Z. Gu, Z. Xu, C. Chen (Wuhan, PR China), J. Xie and P. Xu (Wuxi, PR China) 285

Contents of *Aquaculture*, Volume 284 289